

Amendments to the Specification:

Page 1, before line 1, please insert the headings:

BACKGROUND OF THE INVENTION

1. Technical Field

Page 1, between line 8 and 9, please insert the heading:

2. Related Art

Page 5, between line 15 and 16, please insert the heading:

BRIEF DESCRIPTION OF THE INVENTION

Page 15, please amend the paragraph at line 16 as follows:

~~In order to alleviate the drawbacks of the aforesaid prior art, a~~A first aspect of the invention relates to a method of training a device for linearizing a radiofrequency amplifier which is included within a radiofrequency transmitter of a first equipment of a radiocommunication system, which transmitter is adapted for transmitting bursts according to a determined frame structure, each burst comprising symbols belonging to a determined alphabet of symbols. The method comprises the steps of:

- a) generating a linearization training sequence comprising a determined number N of symbols, where N is a determined integer;
- b) transmitting the linearization training sequence by means of the ~~radiofrequency~~ transmitter in at least certain of the bursts transmitted by the ~~latter~~transmitter;
- c) comparing the linearization training sequence transmitted with the linearization training sequence generated so as to train ~~said~~ the linearization device.

Page 5, please replace the paragraph which starts line 38 with the following amended paragraph:

~~Advantageously~~In embodiments of the method, at least a determined number N1 of symbols of the linearization training sequence sent first, where N1 is a determined integer less than or equal to N, belong to a subalphabet of symbols included within ~~said~~the alphabet of symbols, ~~said~~the subalphabet of symbols consisting of symbols which, in isolation or combination, give the burst a narrower spectrum than ~~said~~the alphabet of symbols as a whole.

Page 6, please replace the paragraph which starts line 19 with the following amended paragraph:

~~Said~~The first equipment may be a mobile terminal or a base station of the radiocommunication system.

Page 6, please replace the paragraph which starts line 22 with the following amended paragraph:

A second aspect of the invention relates to a device for training a device for linearizing a radiofrequency amplifier which is included within a radiofrequency transmitter of a first equipment of a radiocommunication system, which transmitter is adapted for transmitting bursts according to a determined frame structure, each burst comprising symbols belonging to a determined alphabet of symbols. The device comprises:

- a) means for generating a linearization training sequence comprising a determined number N of symbols, where N is a determined integer;
- b) means for transmitting the linearization training sequence by means of the transmitter in at least certain of the bursts transmitted by the ~~latter~~transmitter;
- c) means for comparing the linearization training sequence transmitted with the linearization training sequence generated so as to train ~~said~~the linearization device.

Page 7, please replace the paragraph which starts line 1 with the following amended paragraph:

~~Advantageously~~In embodiments of the device, at least a determined number N1 of symbols of the linearization training sequence sent first, where N1 is a determined integer less than or equal to N, belong to a subalphabet of symbols included within ~~said~~the alphabet of symbols, ~~said~~the subalphabet of symbols consisting of symbols which, in isolation or combination, give the burst a narrower spectrum than ~~said~~the alphabet of symbols as a whole.

Page 7, please replace the paragraph which starts line 37 with the following amended paragraph:

~~Advantageously~~In embodiments of the sequence, at least a determined number N1 of symbols of the linearization training sequence sent first, where N1 is a determined integer less than or equal to N, belong to a subalphabet of symbols included within ~~said~~the alphabet of symbols, ~~said~~the subalphabet of symbols consisting of symbols which, in isolation or combination, give the burst in which the linearization training sequence is transmitted a narrower spectrum than ~~said~~the alphabet of symbols as a whole.

Page 8, please replace the paragraph which starts line 9 with the following amended paragraph:

~~The object of the invention is therefore achieved by using~~The invention thus uses a particular training sequence which allows the RF signal transmitted to preserve, during the linearization training phase, a spectral width compatible with the sought-after performance without any particular constraint on the instants at which this training is carried out or on the complexity of the transmitter. The binary throughput during the linearization training phase may be the same as that outside of this phase.

Page 8, please delete the paragraph at lines 20 - 24,

Page 8, at line 20, please insert the heading:

BRIEF DESCRIPTION OF THE DRAWINGS

Page 9, between line 3 and 4, please insert the heading:

DESCRIPTION OF PREFERRED EMBODIMENTS

Page 20, please replace the paragraph which starts line 36 and bridges page 21, with the following amended paragraph:

~~According to another advantage, the~~The recurrence of the AGC sequence is adapted to the needs of the training of the linearization device 33. Specifically, the AGC sequence as the training sequence are preferably transmitted at the start of a frame, and then upon a change of logical channel, upon a change of RF frequency and/or upon a change of power rating. This is why it is particularly advantageous to combine these sequences (these sequences forming just one single sequence, or one of them being included in the other), and to transmit them preferably as indicated hereinabove.

Page 21, please replace the paragraph which starts line 10 with the following amended paragraph:

~~According to another advantage, the~~The AGC sequence is situated as near as possible to the signal power ramping-up, for example, just after this ramping. In this way, the training of the linearization device may be carried out as quickly as possible and thus disturb transmission for the least possible time.